

Recombinant Human Galectin-3/LGALS3 Protein

Catalog No.: RP00057

Sequence Information

Species **Gene ID**
Human 3958

Swiss Prot **Tags**
P17931 No tag

Synonyms

CBP35, GAL3, GALBP, GALIG, L31, LGALS2, MAC2, LGALS3, GAL3, GALBP, GALIG, L31, LGALS2, MAC2

Product Information

Source **Purification**
E. coli ≥ 95 % as determined by SDS-PAGE.

Calculated MWObserved MW
26.02 kDa 30 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1–0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

This protein is a member of the galectin family of carbohydrate binding proteins. Members of this protein family have an affinity for beta-galactosides. The encoded protein is characterized by an N-terminal proline-rich tandem repeat domain and a single C-terminal carbohydrate recognition domain. This protein can self-associate through the N-terminal domain allowing it to bind to multivalent saccharide ligands. This protein localizes to the extracellular matrix, the cytoplasm and the nucleus. This protein plays a role in numerous cellular functions including apoptosis, innate immunity, cell adhesion and T-cell regulation. The protein exhibits antimicrobial activity against bacteria and fungi.

Basic Information

Description

Recombinant Human Galectin-3/LGALS3 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ala2-Ile250) of human Galectin-3 (Accession #NP_002297.2).

Activity

Measured by its binding ability in a functional ELISA. Immobilized Human Galectin-3 at 1 μg/mL (100 μL/well) can bind Galectin-3/LGALS3 Rabbit mAb with a linear range of 0.24–35 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

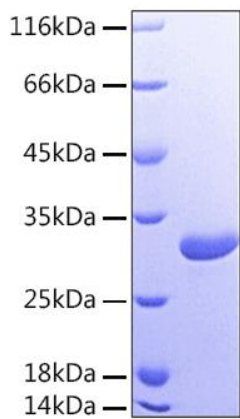
Contact

☎ | 400-999-6126

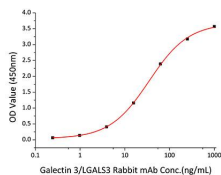
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Validation Data



Recombinant Human Galectin-3/LGALS3 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized recombinant Human Galectin-3 at 1µg/mL (100 µL/well) can bind Galectin-3/LGALS3 Rabbit mAb with a linear range of 0.24-35ng/mL.